

# Converting Colors

$Y_{xy}(48.3470, 0.2495, 0.2880)$

Have a look what the booklet for  
Yxy(48.3470, 0.2495, 0.2880)  
contains.

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# Color

**Yxy(48.3470, 0.2495, 0.2880)**

# Conversions

## Conversions Part 1

Format	Color
Hex	83C1E0
RGB	131, 193, 224
RGB Percent	51%, 76%, 88%
CMY	0.4863, 0.2431, 0.1216
CMYK	0.42, 0.14, 0.00, 0.12
HSL	200°, 60%, 70%
HSV	200°, 42%, 88%
XYZ	41.8839, 48.3470, 77.6406
YIQ	177.9960, -46.9030, -3.5030

# Conversions

## Conversions Part 2

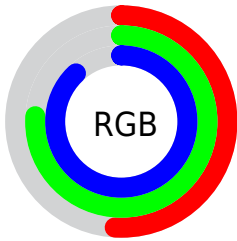
Format	Color
R <sub>Y</sub> B	131, 168, 224
Decimal	8634848
CIE Lab	75.04, -11.94, -21.71
CIE LCh	75, 24.775, 241.186
Yxy	48.3470, 0.2495, 0.2880
Android (android.graphics.Color)	4286824928 (0xFF83C1E0)
YUV	177.9960, 22.6800, -41.2155
Hunter-Lab	69.5320, -14.1581, -17.5318

# Details

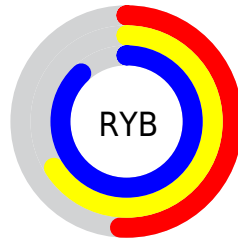
The Yxy color **48.3470, 0.2495, 0.2880** is a light color, and the websafe version is hex **99CCFF**. A complement of this color would be **43.3244, 0.4033, 0.3659**, and the grayscale version is **44.4163, 0.3127, 0.3290**.

A 20% lighter version of the original color is **85.5362, 0.2730, 0.3225**, and **22.8663, 0.2330, 0.2749** is the 20% darker color. If you saturate the color by 10%, you get **43.5316, 0.2358, 0.2761**, and if you desaturate by 10%, it is **53.7194, 0.2642, 0.2992**.

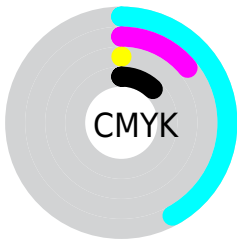
# Distribution



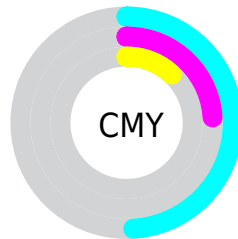
- Red (51%)
- Green (76%)
- Blue (88%)



- Red (51%)
- Yellow (66%)
- Blue (88%)



- Cyan (42%)
- Magenta (14%)
- Yellow (0%)
- Black (12%)




- Cyan (49%)
- Magenta (24%)
- Yellow (12%)

# Brightness & Saturation Gradients

These gradients show how the Yxy color 48.3470, 0.2495, 0.2880 changes by changing the brightness by 10 percent. The first figure shows a shift by +10% for each color and the second figure -10%.


Similar to the brightness gradients but the following saturation gradients show a change of the Yxy color 48.3470, 0.2495, 0.2880 by changing the saturation by 10% instead.





 48.3470, 0.2495,  
0.2880

 48.3470, 0.2495,  
0.2880

380.1659, 0.2801,  
0.3087


 34.1018, 0.2422,  
0.2828

 87.7208, 0.2604,  
0.2955

 22.9718, 0.2330,  
0.2762


 113.6182, 0.2645,  
0.2983

 14.5727, 0.2212,  
0.2675


 144.1684, 0.2681,  
0.3007

 8.5200, 0.2054,  
0.2555

179.7559, 0.2712,  
0.3028

 4.4295, 0.1835,  
0.2381

220.7650, 0.2738,  
0.3045

 1.9166, 0.1514,  
0.2109

267.5801, 0.2762,

 0.5583, 0.0693,

0.3061

0.1618

320.5856, 0.2783,  
0.3075

0.0000, 0.0000,  
0.0000

48.3470, 0.2495,  
0.2880

48.3470, 0.2495,  
0.2880

43.5316, 0.2358,  
0.2761

53.7194, 0.2642,  
0.2992

39.2399, 0.2234,  
0.2637

59.6684, 0.2794,  
0.3096

35.4432, 0.2127,  
0.2509

66.2193, 0.2949,  
0.3191

32.1068, 0.2039,  
0.2380

73.3942, 0.3104,  
0.3278

29.1892, 0.1973,  
0.2253

81.2137, 0.3256,  
0.3355

■ 26.9853, 0.1930,  
0.2147

■ 87.6709, 0.3331,  
0.3427

■ 92.1034, 0.3321,  
0.3499

■ 96.7182, 0.3312,  
0.3570

■ 98.1615, 0.3310,  
0.3592

# Harmonies

## Analogous

The Analogous color harmony consists of three colors that are next to each other on the color wheel.



48.3470, 0.2528, 0.3142



48.3470, 0.2495, 0.2880



48.3470, 0.2618, 0.2744

# Triad

The Triadic color harmony groups three colors that are evenly spaced from another and form a triangle on the color wheel.



48.3470, 0.2495, 0.2880



48.3470, 0.3546, 0.3105



48.3470, 0.3354, 0.3899

# Complementary

The Complementary color scheme is a pair of colors which are on the opposite of each other on the color wheel.



48.3470, 0.2495, 0.2880



43.3244, 0.4033, 0.3659

# Split Complementary

Split-complementary colors differ from the complementary color scheme. The scheme consists of three colors, the original color and two neighbors of the complement color.



48.3470, 0.3645, 0.3850



48.3470, 0.2495, 0.2880



48.3470, 0.3765, 0.3383

# Square

The Square scheme is like the rectangle color scheme, but the four colors are evenly spaced on the color wheel.



48.3470, 0.2495, 0.2880



48.3470, 0.3216, 0.2879



48.3470, 0.3800, 0.3654



48.3470, 0.3012, 0.3759



# Rectangle

The Rectangle color scheme consists of four colors that form a rectangle on the color wheel.



48.3470, 0.2495, 0.2880



48.3470, 0.2778, 0.2732



48.3470, 0.3800, 0.3654



48.3470, 0.3461, 0.3903

# Sweetspot

The Sweet Spot groups the original color and five complimentary colors.



48.3489, 0.2495, 0.2880



88.3163, 0.2941, 0.3186



60.6879, 0.2903, 0.4156



18.6471, 0.2920, 0.3174



0.0000, 0.0000, 0.0000



21.4041, 0.3127, 0.3290

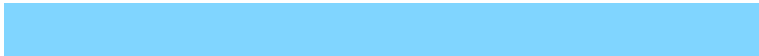


# Same Dimension

The Same Dimension uses a secret algorithm to generate beautiful new colors.



48.3489, 0.2495, 0.2880



59.1119, 0.2373, 0.2775



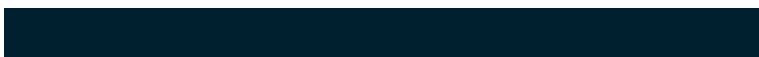
31.4037, 0.2393, 0.2249



14.7624, 0.2982, 0.3210



15.9278, 0.1935, 0.2166



1.2666, 0.1989, 0.2360



# Inverse Universe

The Inverse Universe completely reimagines the original color for something new.



35.9308, 0.3482, 0.2580



41.3474, 0.3588, 0.2438



62.0849, 0.3818, 0.4148



13.8539, 0.3188, 0.3135



10.5160, 0.4269, 0.2125

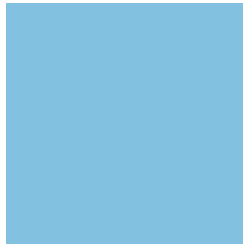


0.7453, 0.4064, 0.2013



# Previews

## White Background



This preview shows how the Yxy color 48.3470, 0.2495, 0.2880 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

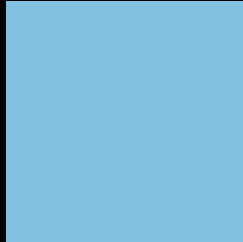
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the Yxy color 48.3470, 0.2495, 0.2880 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

If you want to check with other color combinations, try the [Color Contrast Checker](#).

**Yxy 48.3470, 0.2495, 0.2880**

## **Background**



This preview shows how black text looks on a background with the Yxy color 48.3470, 0.2495, 0.2880.



This preview shows how white text looks on a background with the Yxy color 48.3470, 0.2495, 0.2880.

# Color Blindness Simulation

Color vision deficiency is a very complex topic, and I could not describe the different causes any better than Wikipedia does, so if you want to learn more, you should check out their [article about color blindness](#).

## Dichromacy



### Original Color

48.3470, 0.2495, 0.2880

### Protanopia

47.8128, 0.2828, 0.2853

### Deuteranopia

47.8919, 0.2781, 0.2718



## Tritanopia

48.2454, 0.2548, 0.3071

# Trichromacy



## Original Color

48.3470, 0.2495, 0.2880

## Protanomaly

47.7587, 0.2688, 0.2855

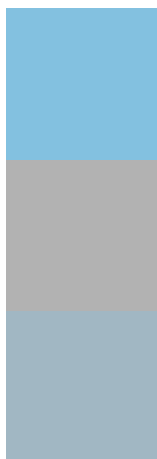
## Deuteranomaly

47.8703, 0.2664, 0.2773

## Tritanomaly

48.1306, 0.2524, 0.2993

# Monochromacy



## Original Color

48.3470, 0.2495, 0.2880

## Achromatopsia

44.5201, 0.3127, 0.3290

## Achromatomaly

45.3842, 0.2859, 0.3128

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 48.3470, 0.2495, 0.2880 is called "color". The color property can be set on classes, ids or directly on the HTML element.

This example shows how text in the color `rgb(131, 193, 224)` looks like.

```
.text, #text, p{  
    color:rgb(131, 193, 224)  
}
```

If you want to add a text shadow in that color use the text-shadow property, you can generate a text shadow directly with our [CSS Text Shadow Generator](#).

Here you see how black text with a 4 pixel rgb(131, 193, 224) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(131, 193, 224) }
```

## Border

The CSS property to change the border of an element to Yxy 48.3470, 0.2495, 0.2880 is called "border". The border property can be set on classes, ids or directly on the HTML element.

This example shows the color as border, it can be applied via the CSS property "border" or "border-color".

```
.border, #border, table{ border:4px solid rgb(131, 193, 224) }
```

If only the border color should be changed use the property `border-color`.

```
.border{ border-color:rgb(131, 193, 224) }
```

If you want to add a box shadow in that color use:

Here you see how a box with a 4 pixel `rgb(131, 193, 224)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(131, 193, 224); -webkit-box-  
shadow:4px 4px 4px 4px rgb(131, 193, 224);  
box-shadow:4px 4px 4px 4px rgb(131, 193,  
224) }
```



# Background

The CSS property to change the background color of an element to Yxy 48.3470, 0.2495, 0.2880 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(131, 193, 224) }
```

If only the background color should be changed can be used:

```
.background{ background-color: rgb(131,  
193, 224) }
```

This example shows the color as background, it is applied via the CSS property "background".

To optimize and compress your CSS code, you can use our [online CSS compressor and optimizer](#) based on csstidy. If you want to create a linear or radial gradient as background or border, check our [CSS Gradient Generator](#).

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